

ABSTRACT

The present invention relates to a variable tumble flow-generating device, which comprises: a bulkhead for dividing an intake port into a first passage and a second passage; an opening degree control valve for selectively changing an opening degree of the first and second passages; and driving means for operating the opening angle control valve. This variable tumble flow-generating device can generate tumble flow by making air flowing through different passages while minimizing a flow resistance of air supplied into the combustion chamber, and which has a simple structure so that a limitation in its installation space in relation with other parts can be avoid. Also, the variable tumble flow-generating device is manufactured by adding only a structure where the bulkhead is previously assembled with the intake port core of the prior art. For this reason, this is a simple structure and thus is manufactured at inexpensive costs.